AYMAN AHSAN

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PROFESSIONAL SUMMARY

Computer Science student with hands-on experience building full-stack web and mobile applications using React, Node.js, and PostgreSQL. Strong interest in backend systems, performance optimization, and applied AI. Seeking a Summer 2026 software engineering internship with a focus on backend systems and applied AI.

EDUCATION

CUNY - City College
B.S. in Computer Science — Expected May 2027
GPA: 3.3

- RELEVANT COURSEWORK: Data Structures, Algorithms, Discrete Math, Intro to OOP

PROFESSIONAL EXPERIENCE

Network Intelligence applied   **New York, NY, USA**
Full-stack Engineer   *October 2025 - Present*

- Developed a scalable frontend architecture using React and TypeScript, implementing centralized state management, improving load times and UX
- Optimized NodeJS API endpoints and PostgreSQL queries, reducing server response times for geolocation-heavy data requests by 85%
- Implemented OAuth2 authentication using Supabase, creating user accounts and session management that enhanced login security and reduced unauthorized access
- Engineered application security by implementing Row-Level Security (RLS) policies, which protected user session data and prevented unauthorized data exposure
- Designed PostgreSQL database schemas, applying one-to-many and many-to-many relationships, foreign keys, and database triggers/functions to ensure efficiency and scalability.
- Developed a cross-platform mobile application using React Native and TypeScript, sharing core logic with the web stack to ensure feature parity, consistent user experience, and faster iteration across iOS and Android.

PROJECTS

Summarize AI - *Link to Project*   **New York, NY, USA**
Full stack Developer   *May 2025 - September 2025*

- Built a full-stack web application using React, FastAPI, and PostgreSQL to support PDF upload, document parsing, and AI-powered summarization
- Designed a retrieval-augmented generation (RAG) pipeline with backend routing and caching, optimizing token usage and latency by 30% through smart chunking, caching, and request routing.
- Integrated LLM APIs (Gemini) with custom prompt engineering, reducing hallucinations by 40%
- Applied Agile practices, such as version control with Git, containerization with Docker, and a CI/CD pipeline for testing and deployment.
- Tech Stack: React, Python, PostgreSQL, FastAPI, Gemini API, Langchain

Currency Exchange   **New York, NY, USA**
                                                                                  August 2024 - September 2024

- Integrated third-party API's to fetch real-time exchange, achieving a 92% accuracy rate
- Designed a desktop Currency Exchanger app using Python's Tkinter GUI library
- Visualized historical currency trends using Matplotlib and financial data libraries
- Tech Stack: Python, Tkinter, Yfinance

SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++
Frontend: React, React Native, HTML/CSS, Tailwind
Backend: Node.js, FastAPI, Django
Databases: PostgreSQL, Supabase, Firebase
Tools: Git, Docker, REST APIs, CI/CD
AI/ML: LangChain, Gemini API